IN THE CLAIMS:

Claims 1 has been amended and claims 26-35 have been added as follows:

1. (Currently Amended) An integrated heat spreader constructed and arranged to be adhesively affixed, with a sealant, to at least a portion of a component, comprising:

a body portion;

a solid continuous lip portion substantially vertically oriented relative to the body portion; and

a plurality of step portions adjacent perpendicular to the lip portion, wherein the plurality of step portions are spaced apart by a plurality of cutouts.

- 2. (Canceled)
- 3. (Canceled)
- 4. (Previously Amended) The integrated heat spreader of claim 1, wherein the plurality of step portions are non-uniformly spaced.
- 5. (Previously Amended) The integrated heat spreader of claim 1, wherein the plurality of step portions are formed of copper or aluminum.
- 6. (Previously Amended) The integrated heat spreader of claim 1, wherein the plurality of step portions are formed of a carbon/carbon composite.
- 7. (Previously Amended) The integrated heat spreader of claim 1, wherein the plurality of step portions are formed of a carbon/metal composite.
 - 8. (Original) The integrated heat spreader of claim 7, wherein the



carbon/metal composite comprises a matrix fiber reinforced composite.

- 9. (Original) The integrated heat spreader of claim 7, wherein the carbon/metal composite comprises a carbon/copper composite.
- 10. (Previously Amended) The integrated heat spreader of claim 1, further comprising a coating applied to the plurality of step portions.
- 11. (Original) The integrated heat spreader of claim 10, wherein the coating comprises nickel.
- 12. (Previously Amended) The integrated heat spreader of claim 1, further comprising a plated portion integrally formed with the plurality of step portions.
- 13. (Original) The integrated heat spreader of claim 12, wherein the plated portion is formed of gold, silver, tin, nickel, or a metal composite.
- 14. (Original) The integrated heat spreader of claim 1, wherein the sealant is silicone-based or epoxy-based.
- 15. (Original) The integrated heat spreader of claim 1, wherein the component comprises a substrate.
- 16. (Original) The integrated heat spreader of claim 1, wherein the body portion comprises a substantially rectangular or square frame.
- 17. (Original) The integrated heat spreader of claim 1, further comprising a thermal interface material (TIM) interposing a die and the body portion, the TIM comprising one of solder, a polymer/solder composite, and a polymer.

18 - 25 (Canceled)

26. (New) An integrated heat spreader constructed and arranged to be adhesively affixed, with a sealant, to at least a portion of a component, comprising:

a body portion;

a solid continuous lip portion substantially vertically oriented relative to the body portion; and

a plurality of step portions perpendicular to the lip portion, wherein the plurality of step portions are spaced apart by a plurality of cutouts and there are at least five cutouts.

- 27. (New) The integrated heat spreader of claim 26, wherein the plurality of step portions are non-uniformly spaced.
- 28. (New) The integrated heat spreader of claim 26, further comprising a coating applied to the plurality of step portions.
- 29. (New) The integrated heat spreader of claim 28, wherein the coating comprises nickel.
- 30. (New) The integrated heat spreader of claim 26, further comprising a plated portion integrally formed with the plurality of step portions.
- 31. (New) The integrated heat spreader of claim 30, wherein the plated portion is formed of gold, silver, tin, nickel, or a metal composite.
- 32. (New) The integrated heat spreader of claim 26, further comprising a thermal interface material (TIM) interposing a die and the body portion, the TIM comprising one of solder, a polymer/solder composite, and a polymer.

- 33. (New) The integrated heat spreader of claim 26, wherein the plurality of step portions are formed of a carbon/carbon composite.
- 34. (New) The integrated heat spreader of claim 26, wherein the plurality of step portions are formed of a carbon/metal composite.
- 35. (New) The integrated heat spreader of claim 34, wherein the carbon/metal composite comprises a matrix fiber reinforced composite.

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